BRUHAT BENGALURU MAHANAGARA PALIKE

YELAHANKA ZONE

AME OF WORK : Improvements and Interior works to Karaga mantapa and improvements to kalyani rrounding areas at yelahanka kalyani in ward no-01.

Estimate Cost Rs. 50.00 Lakhs

Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
KSRB 2-2.1 : Earth work excavation for foundation of buildings, culverts water supply, sanitary line and electrical conduits either in pits or in trenches 1.5m and above in width, in ordinary soil not exceeding 1.5m, in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50m, after breaking of clods complete as per specifications, specification, No, KBS 2.1(a) / 2.3.5, No.5/Item No. 2.3)								
	Cum							
Retaining wall		1	80.00	0.35	0.45	12.60		
Ramp pillers		4	2.40	2.40	2.60	59.90		
for Ramp Foundation		1	6.60	6.80	2.50	112.20		
					Net Qty	184.70	204.12	37702.00
Basic Rate	189.00							
Area Weightage @8%	15.12							
Total	204.12							
KSRRB M100-1 Loading and Unloading of Stone Boulder / Stone aggregate /sand/kaner/ Moorum KSRRB M100-1 Placing tipper at loading point, loading with front end loader, dumping, turning for return trip, excluding time for haulage and return trip complete as per specifications MORTH -100/ Chapter 1 (Page No.133/ Item No.17.1)								
	Cum							
					Qty Vide Item No.1	184.70	100.00	18470.00
Average Weight of Earth 1.28 Tonne/Km								
Basic Rate Lead Charges for 10.00 Kms	32.00							
Add loading and unloading Item No 17.1)	68.00							
Total	100.00							
KSRB 5.1-2 : Providing and constructing granite / trap / basalt rubble stone masonry in foundation with cement mortar 1:6 (Uncoursed), bond stones at 2m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.12 (Page No.23/ Item No.5.3)								
	Cum							
		4	2.40	2.40	0.45	10.37		
						10.37	3508.92	36380.00
Basic Rate	3249.00							
Area Weightage @8%	259.92							
Total	3508.92							

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
4	KSRRB M2100-10. Plain cement concrete M10 with OPC cement @ 220kgs, with crushed 40mm and down size graded granite metal coarse aggregates @ 0.64cum and fine aggregates @ 0.56cum in foundation mechanically mixed, placed in foundation and compacted by vibration including curing for 14days complete as per specifications, MORTH Specification No.2100(P.No.218 & I.No.27.18)								
		cum							
	piers		4	2.40	2.40	0.15	3.46		
	Retaining wall		1	80.00	0.35	0.15	4.20		
	for Platform		1	4.95	4.95	0.15	3.68		
						Net Qty	11.33	6084.72	68948.00
	Basic Rate 5634.00								
	Area Weightage @ 8% 450.72								
	Total 6084.72								
5	KSRRB M2200-5.14 : Design mix M30 with OPC cement @ 360kgs , with 20mm and down size graded granite metal,coarseaggregated @ 0.69cum ,and fine aggregated @ 0.46cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 (P.No.224/ I.No.28.7.15)								
		Cum							
	footing		4	2.40	2.40	0.90	20.74		
	for Column (Ramp (i))		4	0.45	0.45	4.15	3.36		
	for Column (mantapa)		12	0.45	0.45	4.15	10.08		
	Plinth beams (Ramp (i))		2	6.80	0.45	0.45	2.75		
			2	6.60	0.45	0.45	2.67		
	Roof beams (mantapa)		4	13.10	0.45	0.60	14.15		
			4	13.10	0.45	0.45	10.61		
			2	13.10	0.20	0.45	2.36		
			2	4.05	0.20	0.45	0.73		
			2	4.10	0.20	0.45	0.74		
	Roof beams (Ramp (i))		2	10.45	0.45	0.60	5.64		
			2	4.95	0.45	0.45	2.00		
	Steps(Ramp (ii))		3	4.95	0.40	0.20	1.19		
							77.03	7550.28	581589.00
	Basic Rate 6991.00								
	Area Weightage @ 8% 559.28								
	Total 7550.28								
6	KSRRB M300-53: Construction of embankment with approved material gravel/murrum with all lifts and leads, transporting to site, spreading, grading to required slope and compacting to meet requirement table 300-2 complete as per specifications. (which includes cost of gravel/murrum, watering charges & compaction by vibratory roller) MORTH specification No. 305, P No. 148/ Item No. 19.60								
		Cum							
	steps		1	15.00	7.00	$\frac{0+3.00}{2}$	157.50		
	for Platform		1	4.95	4.95	0.45	11.03		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Deduct Column for steps		-4	0.45	0.45	4.15	-3.36		
							165.16	326.16	**53870.09**
	Basic Rate	302.00							
	Area Weightage @ 8%	24.16							
	Total	**326.16**							
7	KSRB 5.2.3 : Providing and constructing granite / trap / basalt size stone masonry in foundation with cement mortar 1:6, stone hammerd dressed in courses not less than 20 cms high, bond stones at two m. apart in each course including cost of materials, labour, curing complete as per specifications.KBS 5.1.13 (Page No. 23/ Item No. 5.6)								
		cum							
	steps		15	14.00	0.50	0.20	21.00		
						Net Qty	**21.00**	4521.96	**94961.00**
	Basic Rate	4187.00							
	Area Weightage @8%	334.96							
	Total	**4521.96**							
8	KSRB 6-2.3 : Providing and constructing burnt brick masonry with approved quality of non-modular bricks of standard size of class designation 7.5 Newton per Sqmm with cement mortar 1:3 for basement and superstructure (machine moulded wirecut bricks) with cost of materials, labour charges, scaffolding, curing complete as per specifications. Specification No. KBS 6.2, (Page No. 27 / Item No. 6.11)								
		cum							
	for Platform		2	4.95	0.60	0.45	2.67		
			2	4.95	0.60	0.45	2.67		
						Net Qty	**5.35**	11451.24	**61218.00**
	Basic Rate	10603.00							
	Area Weightage @8%	848.24							
	Total	**11451.24**							
9	KSRB 4-1.7 : Providing and laying in position plain cement concrete of mix 1:3:6 with OPC cement @ 220kgs with 20mm and down size graded granite metal coarse aggregate @ 0.84cum and fine aggregate @ 0.56 cum machine mixed concrete laid in layers not exceeding 15cms, thick, well compacted, in foundation, plinth and cills, including cost of all materials, labour, HOM of machinery, curing complete as per specifications, specification. No. KBS 4.1.4.2.(P No.13 / Item No.4.7)								
		Cum							
	for steps		15	14.00	0.50	0.10	10.50		
							10.50	5598.92	**58788.66**
	Basic Rate	5282.00							
	Area Weightage @ 6%	316.92							
	Total	**5598.92**							
10	KSRB 15-3.10 : Providing 15mm thick cement plaster in single coat with cement mortar 1:3, to Brick masonry including rounding off corners wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page No.113 /Item No.15.12)								
		sqm							
			2	4.95		0.45	4.46		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
			2	4.95		0.45	4.46		
							8.91	221.40	1972.67
	Basic Rate	205.00							
	Area Weightage @ 8 %	16.40							
	Total	**221.40**							
11	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete **(RMC)** M20 for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, for raft foundation, column footing, main and secondary beams with all lead and lifts etc.,complete (exclusive of cost of steel and fabrication charges.)Page No.18/Item No.4.49.3)-do- M30								
		Cum							
	Retaining wall		1	80.00	0.175	0.60	8.40		
	for Platform		1	4.95	4.95	0.15	3.68		
							12.08	6742.44	81417.00
	Basic Rate	6243.00							
	Area Weightage @8%	499.44							
	Total	**6742.44**							
12	Solid slab super structure KSRRB M2300-3.1 : Furnishing and placing reinforced / prestressed cement concrete in super-structure as per drawings and technical specification complete as per specification. B.RCC with OPC Cement design mix M25 @340kgs, with 20mm and down size graded granite metal,coarse aggregates @ 0.70cum ,and fine aggregated @ 0.47cum, with superplastisiser @ 3lts confirming to IS9103-1999 Reaffirmed -2008 case.I Using Concrete Mixer MORTH Specification No.1500, 1600 & 1700 height upto 5 mtr (P.No.229/ I.No.29.5)								
		Cum							
	Roof (Basement floor)		1	13.10	13.10	0.175	30.03		
	Roof (Ground floor)		1	13.10	13.10	0.175	30.03		
	Ramp (i)		1	10.45	4.95	0.175	9.05		
	Ramp (ii)		1	3.10	4.95	0.175	2.69		
			1	3.80	4.90	0.175	3.26		
							75.06	8036.28	603201.00
	Basic Rate	7441.00							
	Area Weightage @ 8%	595.28							
	Total	**8036.28**							
13	KSRB 4.9.2: Providing T.M.T steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost pf materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 -do- TMT Bars Fe 550 P.17/It.No.4.46.3								
		tonne							
			130% of Qty Vide Item No.7				100.14		
			70% of Qty Vide Item No.9				5.88		

Sl. No	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
					140% of Qty Vide Item No 10		105.08		
						in Qtl	211.10		
						in tonne	**21.1101**	76329.00	**1611312.00**
	Basic Rate	70675.0							
	Area Weightage @ 8%	5654.00							
	Total	**76329.00**							
14	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc . for columns, pillars, piers, abutments, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6. (Page No. 16/ Item No. 4.32)								
		Sqm							
	Column (Ramp)		4x4	0.45		4.15	29.88		
	Column (Mantapa)		4x12	0.45		4.15	89.64		
							119.52	395.28	**47244.00**
	Basic Rate	366.00							
	Area Weightage @ 8%	29.28							
	Total	**395.28**							
15	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc . and removal of form work for **vertical surface** such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 (Page No. 15 / Item No. 4.31)								
		Sqm							
	Roof beams (mantapa)		2x2x4	13.10		0.60	125.76		
			2x2x4	13.10		0.45	94.32		
			2x2	13.10		0.45	23.58		
			2x2	4.05		0.45	7.29		
			2x2	4.10		0.45	7.38		
	Roof beams (Ramp)		2x2	10.45		0.60	25.08		
			2x2	4.95		0.45	8.91		
	Retaining wall		2	80.00		0.60	96.00		
							388.32	316.44	**122880.00**
	Basic Rate	293.00							
	Area Weightage @8%	23.44							
	Total	**316.44**							
16	Providing and Laying flooring using prepolished water cut/gang saw m thick polished tandur blue stone slabs using cement mortar 1:6, 25mm thick over existing cement concrete bed or top of roof laid to line and level and jointed with cement slurry mixed with pigment to match the shade of the slab including cost of materials, labour, curing polishing complete as per specifications specifications No.KBS (Page No.103 / Item No.14.15)								
		Sqm							
	flooring		1	20.00	20.00		400.00		
	steps		4	20.00	1.20		96.00		
							496.00	1210.68	**600497.00**

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	Basic Rate 1121.00								
	Area Weightage @8% 89.68								
	Total 1210.68								
17	Providing and fixing for flooring 20mm thick gang saw water cut sadarhalli grey granite in CM 1:4 proportion, cut to required shape pattern with paper joints finished with cement mortar using white cement colour pigment to match colour of slab making through jointing with sealent, grooves in joints including cost of all materials mortar and labour etc.,complete as per specifications -do- minimum width of 1200mm (Page No.109 / Item No.14.61.1)								
		Sqm							
	Mantapa		1	13.10	13.10		171.61		
	Platform		2	4.95		0.45	4.46		
			2	4.95		0.45	4.46		
			1	19.80	0.60		11.88		
			2	11.50	1.20		27.60		
			6	4.15	1.80		44.82		
							264.82	2144.88	**568007.00**
	Basic Rate 1986.00								
	Area Weightage @8% 158.88								
	Total 2144.88								
18	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for flat surface such as suspended floors, roofs, landings, balconies and likes, thickness upto 200 mm including cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 (Page No. 15/ Item No. 4.18)								
		Sqm							
	Roof		2	13.10	13.10		343.22		
	Ramp (i)		1	10.45	4.95		51.73		
			1	3.10	4.95		15.35		
	Ramp (ii)		1	4.90	3.80		18.62		
							428.91	338.04	**144990.00**
	Basic Rate 313.00								
	Area Weightage @8% 25.04								
	Total 338.04								
19	KSRB 15.3.13 : Providing **12mm thick cement plaster in single coat** with cement mortar 1:3, to ceiling including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications (Page No. 114/ Item No 15.21)								
		Sqm							
	Roof (Basement floor)		1	13.10	13.10		171.61		
	Roof (Ground floor)		1	13.10	13.10		171.61		
	Ramp (i)		1	10.45	4.95		51.73		
	Ramp (ii)		1	3.80	4.90		18.62		
	Roof beams (mantpa) sides		2x2x4	13.10		0.60	125.76		
	bottom		4	13.10	0.45		23.58		

Sl. No.	Description of Item	Unit	No.	L	B	D	Qty.	Rate	Amount
	sides		2x2x4	13.10		0.45	94.32		
	bottom		4	13.10	0.45		23.58		
	sides		2x2	13.10		0.45	23.58		
	bottom		2	13.10	0.20		5.24		
	sides		2x2	4.05		0.45	7.29		
	bottom		2	4.05	0.20		1.62		
	sides		2x2	4.10		0.45	7.38		
	bottom		2	4.10	0.20		1.64		
	Roof beams (Ramp) sides		2x2	10.45		0.60	25.08		
	bottom		2	10.45	0.45		9.41		
	sides		2x2	4.95		0.45	8.91		
	bottom		2	4.95	0.45		4.46		
							775.41	208.44	161625.94 ✓

Basic Rate 193.00
Area Weightage @8% 15.44
Total 208.44

20 KSRB 15-3.10 : Providing 20mm thick cement plaster in single coat with cement mortar 1:3 to Stone masonry & concrete surface including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, cost of materials, labour, curingetc.,complete as per specifications (Page No.114/Item No.15.18)

	Sqm							
for steps		15	14.00	0.50		105.00		
		15	14.00		0.20	42.00		
						147.00	279.72	41119.00 ✓

Basic Rate 259.00
Area Weightage @8% 20.72
Total 279.72

Miscellaneous and unforeseen charges

ADMINISTRATIVELY SANCTIONED FOR Rs. 50.00 lakhs
Rupees fifty lakhs only
~~3807.63~~
Total Amount 5000000.00

(Rupees Fifty Lakhs Only)

Under 306 NO - 001 -18-00000 1

CERTIFICATE

1. The site has been inspected and the work is found to be necessary.
2. The rates adopted are as per PW.P IWTD SR of 2016-17
3. The provisions were made in this estimate are necessary and adequate.
4. The area comes under the Bruhat Bengaluru Mahanagara Palike Limits.

Assistant Engineer
Ward No.01

Executive Engineer
Yelahanka Division
B.B.M.P

Assistant Executive Engineer
Yelahanka Sub-Division
B.B.M.P

Respected Sir, Submitted in enclosed memo for Technical Sanction Dt. J.C(Y) PRO/AE/ 34/17 dated 21-9-2017 for 50.00 lakhs

Technical Sanction
Accorded For 50.00 lakhRs.
Head of A/C P3250
CER NO : 175 Dt: 21/08/17

ACE (YNK)

Joint Commissioner
(Yelahanka Zone)
BBMP, Bengaluru-92.

ಜಂಟಿ ಆಯುಕ್ತರು
ಯಲಹಂಕ ವಲಯ,
ಬೃಹತ್ ಬೆಂಗಳೂರು ಮಹಾನಗರ ಪಾಲಿಕೆ
ಬ್ಯಾಟರಾಯನಪುರ, ಬೆಂಗಳೂರು-92